

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number  
**WO 2005/053733 A1**

- (51) International Patent Classification<sup>7</sup>: **A61K 38/38**,  
A61P 13/06
- (21) International Application Number:  
PCT/GB2004/004770
- (22) International Filing Date:  
12 November 2004 (12.11.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
0328060.9 4 December 2003 (04.12.2003) GB
- (71) Applicant (*for all designated States except US*): **SOCI-  
ETE DE CONSEILS DE RECHERCHES ET D'AP-  
PLICATIONS SCIENTIFIQUES (S.C.R.A.S.)** [FR/FR];  
42, Rue du Docteur Blanche, F-75016 Paris (FR).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **DOTT, Chris**  
[GB/GB]; Ipsen Limited, 190 Bath Road, Slough, Berk-  
shire SL1 3XE (GB). **BATCHELOR, John** [GB/GB];  
Ipsen Limited, 190 Bath Road, Slough, Berkshire  
SL1 3XE (GB). **BERNARD D'ARBIGNY, Pierre**  
[FR/FR]; 25, Rue Victor Hugo, F-92400 Courbevoie (FR).  
**CHERIF-CHEIKH, Roland** [FR/ES]; C/Paseo Farigola  
12, Castelldefels, E-08860 Barcelona (ES).
- (74) Agent: **DAVIES, Jonathan, Mark**; Reddie & Grose, 16  
Theobalds Road, London WC1X 8PL (GB).
- (81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.
- (84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,  
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: **BOTULINUM TOXIN TREATMENT OF SPASTIC BLADDER**

(57) Abstract: The invention relates to the use of a liquid or semi-solid formulation of botulinum toxin for the preparation of a medicament intended to treat a disorder characterised by bladder spasms (e.g. urinary incontinence due to unstable bladder or unstable detrusor sphincter, voiding complications due to detrusor overactivity or unstable detrusor sphincter, urinary retention secondary to spastic sphincter or hypertrophied bladder neck and neurogenic bladder dysfunction secondary to Parkinson's disease, spinal cord injury, stroke or multiple sclerosis or characterised by a spasm reflex), wherein said medicament is for administration by infusion into the bladder or by other methods that do not involve injection into the bladder wall.

WO 2005/053733 A1